We claim:

- A method for filtering aqueous liquids, which comprises carrying out the filtration of the aqueous liquid in the presence of a filter aid, wherein the filter aid comprises at least one particulate, water-insoluble and scarcely swellable polymer of ethylenically unsaturated monomers, which contains, copolymerized, at least 20% by weight, based on the total weight of the monomers, of at least one α,β-monoethylenically unsaturated monocarboxylic acid having from 3 to 6 carbons.
- 2. The method as claimed in claim 1, wherein the ethylenically unsaturated carboxylic acid is selected from the group consisting of acrylic acid, methacrylic acid and their mixtures.
- 3. The method as claimed in claim 1, wherein the polymer contains, copolymerized, from 0.1 to 10% by weight of at least one compound having at least 2 nonconjugated, ethylenically unsaturated double bonds.
- The method as claimed in claim 1, wherein the polymer
 contains, copolymerized,
 - a) from 20 to 98.9% by weight of at least one α,β -monoethylenically unsaturated monocarboxylic acid having from 3 to 6 carbons as monomer a),
 - b) from 1 to 79.9% by weight of styrene and/or at least one monounsaturated styrene derivative as monomer b),
- c) from 0.1 to 10% by weight of at least one monomer c)

 having at least 2 nonconjugated, ethylenically unsaturated double bonds, with or without
 - d) from 0 to 40% by weight of one or more monomers d) that are different from monomers a) to c),
 - with the percentages by weight of the individual components a) to d) totaling 100%.

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- The method as claimed in claim 1, wherein the polymer 5. 5 contains, copolymerized,
 - from 20 to 89.8% by weight of acrylic acid, a)
- b) from 10 to 74.8% by weight of styrene or a mixture of styrene and at least one monounsaturated styrene 10 derivative,
- from 0.2 to 8% by weight of at least one monomer c), selected from alkylene glycol di(meth)acrylates, N,N'-divinylureas and N,N'-divinylaromatics, with or 15 without
 - from 0 to 10% by weight of one or more N-vinyllactams,
- 20 with the percentages by weight of the individual components a) to d) totaling 100%.
 - 6. The method as claimed in claim 1, wherein the polymer is a popcorn polymer.
 - The method as claimed in claim 1, wherein the filtration is 7. carried out as precoat filtration.
- The method as claimed in claim 7, wherein 8.
 - a precoat is formed on a support surface by applying an 1. aqueous suspension of the filter aid, comprising the particulate, water-insoluble and scarcely swellable polymer to the support surface and removing the aqueous liquid by applying a pressure difference;
 - the aqueous liquid to be filtered is filtered through the precoat by applying a pressure difference through the precoat.
 - 9. The method as claimed in claim 7, wherein the amount of precoat on the support surface ranges from 10 g/m² to 10 kg/m^2 .
- 45 10. The method as claimed in claim 1, wherein the liquid to be filtered is a fruit juice drink or fermented beverage.

- 11. A water-insoluble, scarcely swellable polymer containing, copolymerized:
- a) from 20 to 98.9% by weight of at least one α,β -monoethylenically unsaturated monocarboxylic acid having from 3 to 6 carbons as monomer a),
 - b) from 1 to 79.9% by weight of styrene and/or at least one monounsaturated styrene derivative as monomber b),

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- c) from 0.1 to 10% by weight of at least one monomer c) having at least 2 nonconjugated, ethylenically unsaturated double bonds, with or without
- d) from 0 to 40% by weight of one or more monomers d) different from the monomers a) to c),
 - with the percentages by weight of the individual components a) to d) totaling 100%.

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12. A process for preparing polymers as claimed in claim 11, wherein the monomers a), b), c) with or without d) are polymerized in the absence of oxygen and polymerization initiators.

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- 13. A process as claimed in claim 12, wherein the polymerization is carried out at a temperature of from 50°C to 200°C.
- 14. A process as claimed in claim 12, wherein the polymerization30 is carried out in the presence of a reducing agent.
 - 15. A process as claimed in claim 12, wherein the polymerization is carried out in an aqueous reaction medium as precipitation polymerization.

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